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1 Trace-driven memory simulation: a survey

Richard A. Uhlig, Trevor N. Mudge
June 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 2
Publisher: ACM Press

Full text available: 📄 pdf(636.11 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

As the gap between processor and memory speeds continues to widen, methods for evaluating memory system designs before they are implemented in hardware are becoming increasingly important. One such method, trace-driven memory simulation, has been the subject of intense interest among researchers and has, as a result, enjoyed rapid development and substantial improvements during the past decade. This article surveys and analyzes these developments by establishing criteria for evaluating trac ...

Keywords: TLBs, caches, memory management, memory simulation, trace-driven simulation

2 Shade: a fast instruction-set simulator for execution profiling

Bob Cmelik, David Keppel
May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '94**, Volume 22 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(1.28 MB)   Additional Information: full citation, abstract, references, citings, index terms

Tracing tools are used widely to help analyze, design, and tune both hardware and software systems. This paper describes a tool called Shade which combines efficient instruction-set simulation with a flexible, extensible trace generation capability. Efficiency is achieved by dynamically compiling and caching code to simulate and trace the application program. The user may control the extent of tracing in a variety of ways; arbitrarily detailed application state information may be collected ...

3 Disco: running commodity operating systems on scalable multiprocessors

Edouard Bugnion, Scott Devine, Kinshuk Govil, Mendel Rosenblum
November 1997 **ACM Transactions on Computer Systems (TOCS)**, Volume 15 Issue 4
Publisher: ACM Press

Full text available: pdf(400.76 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

In this article we examine the problem of extending modern operating systems to run efficiently on large-scale shared-memory multiprocessors without a large implementation effort. Our approach brings back an idea popular in the 1970s: virtual machine monitors. We use virtual machines to run multiple commodity operating systems on a scalable multiprocessor. This solution addresses many of the challenges facing the system software for these machines. We demonstrate our approach with a prototy ...

Keywords: scalable multiprocessors, virtual machines

4 <u>Implementation aspects of a SPARC V9 complete machine simulator</u>

Bill Clarke, Adam Czezowski, Peter Strazdins

January 2002 **Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4 CRPITS '02**, Volume 24 Issue 1

Publisher: Australian Computer Society, Inc. , IEEE Computer Society Press

Full text available: pdf(1.33 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this paper we present work in progress in the development of a complete machine simulator for the UltraSPARC, an implementation of the SPARC V9 architecture. The complexity of the UltraSPARC ISA presents many challenges in developing a reliable and yet reasonably efficient implementation of such a simulator. Our implementation includes a heavily object-oriented design for the simulator modules and infrastructure, caching of repeated computations for performance, adding an OS (system call) emu ...

Keywords: SMP, SPARC V9 ISA, UltraSPARC, complete machine simulator, execution-driven simulation, object-oriented design

5 <u>Disco: running commodity operating systems on scalable multiprocessors</u>

Edouard Bugnion, Scott Devine, Mendel Rosenblum

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles SOSP '97**, Volume 31 Issue 5

Publisher: ACM Press

Full text available: pdf(2.30 MB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

6 <u>Devirtualizable virtual machines enabling general, single-node, online maintenance</u>

David E. Lowell, Yasushi Saito, Eileen J. Samberg

October 2004 **ACM SIGARCH Computer Architecture News , ACM SIGOPS Operating Systems Review , ACM SIGPLAN Notices , Proceedings of the 11th international conference on Architectural support for programming languages and operating systems ASPLOS-XI**, Volume 32 , 38 , 39 Issue 5 , 5 , 11

Publisher: ACM Press

Full text available: pdf(174.01 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Maintenance is the dominant source of downtime at high availability sites. Unfortunately, the dominant mechanism for reducing this downtime, cluster rolling upgrade, has two shortcomings that have prevented its broad acceptance. First, cluster-style maintenance over many nodes is typically performed a few nodes at a time, mak-ing maintenance slow and often impractical. Second, cluster-style maintenance does not work on single-node systems, despite the fact that their unavailability during mainte ...

Keywords: availability, online maintenance, planned downtime, virtual machines

7 Instruction fetching: coping with code bloat

Richard Uhlig, David Nagle, Trevor Mudge, Stuart Sechrest, Joel Emer
May 1995 **ACM SIGARCH Computer Architecture News , Proceedings of the 22nd annual international symposium on Computer architecture ISCA '95**, Volume 23 Issue 2
Publisher: ACM Press

Full text available: pdf(1.47 MB)   Additional Information: full citation, abstract, references, citings, index terms

Previous research has shown that the SPEC benchmarks achieve low miss ratios in relatively small instruction caches. This paper presents evidence that current software-development practices produce applications that exhibit substantially higher instruction-cache miss ratios than do the SPEC benchmarks. To represent these trends, we have assembled a collection of applications, called the Instruction Benchmark Suite (IBS), that provides a better test of instruction-cache performance. We discuss th ...

8 Compilation and run-time systems: DELI: a new run-time control point

Giuseppe Desoli, Nikolay Mateev, Evelyn Duesterwald, Paolo Faraboschi, Joseph A. Fisher
November 2002 **Proceedings of the 35th annual ACM/IEEE international symposium on Microarchitecture**
Publisher: IEEE Computer Society Press

Full text available: pdf(1.27 MB) Publisher Site   Additional Information: full citation, abstract, references, citings, index terms

The Dynamic Execution Layer Interface (DELI) offers the following unique capability: it provides fine-grain control over the execution of programs, by allowing its clients to observe and optionally manipulate every single instruction---at run time---just before it runs. DELI accomplishes this by opening up an interface to the layer between the execution of software and hardware. To avoid the slowdown, DELI caches a private copy of the executed code and always runs out of its own private cache.In ...

9 Trap-driven memory simulation with Tapeworm II

Richard Uhlig, David Nagle, Trevor Mudge, Stuart Sechrest
January 1997 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 7 Issue 1
Publisher: ACM Press

Full text available: pdf(630.91 KB)   Additional Information: full citation, references, index terms

Keywords: Cache, TLB, memory system, simulation, trace-driven simulation, trap-driven simulation

10 Virtual machine monitors: Xen and the art of virtualization

Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf Neugebauer, Ian Pratt, Andrew Warfield
October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**
Publisher: ACM Press

Full text available: pdf(168.76 KB)   Additional Information: full citation, abstract, references, citings, index terms

Numerous systems have been designed which use virtualization to subdivide the ample

resources of a modern computer. Some require specialized hardware, or cannot support commodity operating systems. Some target 100% binary compatibility at the expense of performance. Others sacrifice security or functionality for speed. Few offer resource isolation or performance guarantees; most provide only best-effort provisioning, risking denial of service.This paper presents Xen, an x86 virtual machine monit ...

Keywords: hypervisors, paravirtualization, virtual machine monitors

11 Virtual machines: Scale and performance in the Denali isolation kernel

Andrew Whitaker, Marianne Shaw, Steven D. Gribble

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

Publisher: ACM Press

Full text available: pdf(1.91 MB)   Additional Information: full citation, abstract, references, citings

This paper describes the Denali isolation kernel, an operating system architecture that safely multiplexes a large number of untrusted Internet services on shared hardware. Denali's goal is to allow new Internet services to be "pushed" into third party infrastructure, relieving Internet service authors from the burden of acquiring and maintaining physical infrastructure. Our isolation kernel exposes a virtual machine abstraction, but unlike conventional virtual machine monitors, Denali does not ...

12 Exokernel: an operating system architecture for application-level resource management

D. R. Engler, M. F. Kaashoek, J. O'Toole

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5

Publisher: ACM Press

Full text available: pdf(2.16 MB)   Additional Information: full citation, references, citings, index terms

13 Trap-driven simulation with Tapeworm II

Richard Uhlig, David Nagle, Trevor Mudge, Stuart Sechrest

November 1994 **ACM SIGPLAN Notices , ACM SIGOPS Operating Systems Review , Proceedings of the sixth international conference on Architectural support for programming languages and operating systems ASPLOS-VI**, Volume 29 , 28 Issue 11 , 5

Publisher: ACM Press

Full text available: pdf(1.45 MB)   Additional Information: full citation, abstract, references, citings, index terms

Tapeworm II is a software-based simulation tool that evaluates the cache and TLB performance of multiple-task and operating system intensive workloads. Tapeworm resides in an OS kernel and causes a host machine's hardware to drive simulations with kernel traps instead of with address traces, as is conventionally done. This allows Tapeworm to quickly and accurately capture complete memory referencing behavior with a limited degradation in overall system performance. This paper compares trap- ...

Keywords: TLB, cache, memory system, trace-driven simulation, trap-driven simulation

14 Binary translation and architecture convergence issues for IBM system/390

Michael Gschwind, Kemal Ebcioğlu, Erik Altman, Sumedh Sathaye

May 2000 **Proceedings of the 14th international conference on Supercomputing**

Publisher: ACM Press

Full text available: 📄 pdf(1.44 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We describe the design issues in an implementation of the ESA/390 architecture based on binary translation to a very long instruction word (VLIW) processor. During binary translation, complex ESA/390 instructions are decomposed into instruction "primitives" which are then scheduled onto a wide-issue machine. The aim is to achieve high instruction level parallelism due to the increased scheduling and optimization opportunities which can be exploited by binary translation software ...

15 <u>Using the SimOS machine simulator to study complex computer systems</u>   ■

Mendel Rosenblum, Edouard Bugnion, Scott Devine, Stephen A. Herrod
January 1997 **ACM Transactions on Modeling and Computer Simulation (TOMACS),**
Volume 7 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(731.76 KB)   Additional Information: <u>full citation</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Keywords: computer architecture, computer simulation, computer system performance analysis, operating systems

16 <u>Workshop on architectural support for security and anti-virus (WASSA): Towards the</u>   ■
<u>issues in architectural support for protection of software execution</u>
Weidong Shi, Hsien-Hsin S. Lee, Chenghuai Lu, Mrinmoy Ghosh
March 2005 **ACM SIGARCH Computer Architecture News**, Volume 33 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(436.30 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Recently, there is a growing interest in the research community to employ tamper-resistant processors for software protection. Many of these proposed systems rely on a specially tailored secure processor to prevent 1) illegal software duplication, 2) unauthorized software modification, and 3) unauthorized software reverse engineering. Most of these works primarily focus on the feasibility demonstration and design details rather than trying to elucidate many fundamental issues that are either "el ...

Keywords: attack, copy protection, encryption, security, tamper.resistance

17 <u>Improving the reliability of commodity operating systems</u>   ■
Michael M. Swift, Brian N. Bershad, Henry M. Levy
February 2005 **ACM Transactions on Computer Systems (TOCS)**, Volume 23 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(459.98 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Despite decades of research in extensible operating system technology, extensions such as device drivers remain a significant cause of system failures. In Windows XP, for example, drivers account for 85&percent; of recently reported failures.This article describes Nooks, a *reliability subsystem* that seeks to greatly enhance operating system (OS) reliability by isolating the OS from driver failures. The Nooks approach is practical: rather than guaranteeing complete fault tolerance through ...

Keywords: I/O, Recovery, device drivers, protection, virtual memory

18 <u>Embra: fast and flexible machine simulation</u>   ■

Emmett Witchel, Mendel Rosenblum
May 1996 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1996 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '96**, Volume 24 Issue 1
Publisher: ACM Press

Full text available: pdf(1.83 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes Embra, a simulator for the processors, caches, and memory systems of uniprocessors and cache-coherent multiprocessors. When running as part of the SimOS simulation environment, Embra models the processors of a MIPS R3000/R4000 machine faithfully enough to run a commercial operating system and arbitrary user applications. To achieve high simulation speed, Embra uses dynamic binary translation to generate code sequences which simulate the workload. It is the first machine simu ...

19 Efficient instruction cache simulation and execution profiling with a threaded-code interpreter
Peter S. Magnusson
December 1997 **Proceedings of the 29th conference on Winter simulation**
Publisher: ACM Press
Full text available: pdf(912.22 KB)   Additional Information: full citation, references, index terms

20 Virtual machine monitors: Implementing an untrusted operating system on trusted hardware
David Lie, Chandramohan A. Thekkath, Mark Horowitz
October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**
Publisher: ACM Press

Full text available: pdf(280.87 KB)   Additional Information: full citation, abstract, references, citings, index terms

Recently, there has been considerable interest in providing "trusted computing platforms" using hardware~----~TCPA and Palladium being the most publicly visible examples. In this paper we discuss our experience with building such a platform using a traditional time-sharing operating system executing on XOM~----~a processor architecture that provides copy protection and tamper-resistance functions. In XOM, only the processor is trusted; main memory and the operating system are not trusted.Our opera ...

Keywords: XOM, XOMOS, untrusted operating systems

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S78	0	S76 and S77	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/10 12:24
S79	43	S49 or S50 or S51	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/10 12:24

S80	0	S77 and S79	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/05/10 12:24